

KHOBRINO, G.M., kand. tekhn. nauk

Plenum of the lighting engineering section of the Central  
Administration of the Scientific and Technical Society of the  
Power Industry. Svetotekhnika 5 no.6:28-29 Je '59.

(Lighting—Congresses)

(MIRA 12:8)

KHORRING, G.M., kand.tekhn.nauk

Reference data for the calculation of fluorescent lighting.  
Svetotekhnika 5 no.12:22-25 D '59. (MIRA 13:4)

1. Gosudarstvennyy proyektnyy institut "Tyashpromalektroproyekt,"  
Leningrad.  
(Fluorescent lighting)

KNORRINO, Oleg Mikhaylovich; BYABOV, M.S., kand.tekhn.nauk, retsentsent;  
KLYUYEV, S.A., inzh., red.; ZHITNIKOVA, O.S., tekhn.red.

[Handbook for planning in electric lighting] Spravochnik dlia  
proektirovaniia elektricheskogo osveshcheniia. Izd.5, perer. i  
dop. Moskva, Gos.energ.ind-vo, 1960. 339 p. (MIRA 13:10)  
(Electric lighting)

KHOHRING, G.M., kand. tekhn. nauk

Lighting of art galleries. Svetotekhnika 6 no.1:19-25  
Ja '60. (MIRA 13:5)

1. Gosudarstvennyy proyektnyy institut "Tyashpromoelektrproyekt."  
(Art galleries and museums--lighting)

KNORRING, G.M., kand.tekhn.nauk

Without an adequate foundation ("Means for improving electric  
lighting in industrial plants" by V.B.Peretts. Reviewed by  
G.M.Knorring). Svetotekhnika 6 no.3:28-29 Apr '60.

(MIRA 13:6)

(Factories--Lighting) (Peretts, V.B.)

KNORRING, G.M., kand.tekhn.nauk

Is it a textbook or a handbook? (A.E. Boitsov's book "Ship lighting,"  
Reviewed by G.M. Knorring) Svetotekhnika 6 no.9:30-31 S '60.

(MIRA 11:9)

(Ships--Lighting)

(Boitsov, A.E.)

BERNEMAN, Vladimir Ivanovich; LOVTSKIY, Nikolay Mesanel'yevich;  
BOL'SHAN, Ye.M., inzh., retsistent; KOPORIN, A.M., kand.  
tekhn.nauk, red.; SOBOLEVA, Ye.M., tekhn.red.

[Designing of electric power equipment for industrial enterprises]  
Proektirovaniye silovogo elektrooborudovaniya promyshlennykh pred-  
priyatii. Moskva, Gos.energ.isd-vo, 1960. 382 p. (MIRA 14:4)

1. Nachal'nik tekhnicheskogo otdela instituta "Tyashpromoelektro-  
proyekt" (for Bol'shan).  
(Electric apparatus and appliances)

KNORRINO, G.M., kand.tekhn.nauk

Lighting of windowless buildings. Svetotekhnika 6 no.8:26-28  
Ag '60. (MIRA 13:11)

1. Leningradskoye otdeleniye Gosudarstvennogo proyektного  
instituta "Tyashpromselektroproyekt."  
(Electric lighting)



KNORRING, G.M., kand.tekhn.nauk; SAPOZHNIKOV, R.A., doktor tekhn.nauk, prof.

Problem concerning the optimum location of flood lights for  
lighting large areas. Svetotekhnika 7 no.2:28-29 P '61.  
(MIRA 14:10)

(Electric lighting)

KNORRING, O.M., kand.tekhn.nauk

Letter to the editor. Svetotekhnika 7 no.5:14 My '61.

(MIRA 14:6)

(Paint shops--Lighting)  
(Electric wiring, Interior--Safety measures)

KHORRING, G.M., kand.tekhn.nauk

Concerning the assortment of fluorescent lamps. Svetotekhnika 7  
no.6:8-11 No '61. (MIRA 14:6)

1. LG Gosudarstvennogo proyektnogo instituta "Tyazhpromelaktroproyekt,"  
(Fluorescent lamps)

KNORRING, O.M., kand.tekhn.nauk

Concerning the economically effective voltage drop in lighting  
networks. Svetotekhnika 7 no.9:10-15 8 '61. (MIRA 14:9)

L. Leningradskoye otdeleniye Gosudarstvennogo proyektного instituta  
"Tyashpromoelektroproyekt".  
(Electric networks) (Electric lighting)

KNORRING, O.M., kand.tekhn.nauk

Concerning V.V.Meshkov and I.I.Sokolov's book "Course in lighting  
engineering." Svetotekhnika 7 no.12:27-29 D '61. (MIRA 14:12)  
(Electric--Lighting) (Meshkov, V.V.) (Sokolov, I.I.)

DADIMOV, Maks Samuilovich; POLLAK, Sergey Vladimirovich(deceased);  
KNORRING, G.M., kand. tekhn.nauk, retsenzent; LEVITIN, I.B.,  
kand. tekhn.nauk, retsenzent; SOBOLEVA, Ye.M., takhn. red.

[Illumination of construction sites] Osveshchenie stroitel'-  
nykh ploshchadek. Moskva, Gosenergoizdat, 1962. 198 p.  
(MIRA 15:6)

(Building sites) (Electric lighting)

KNORRING, G.M., kand.tekhn.nauk

Luminous ceilings, panels, and strips. Svetotekhnika 8 no.4:  
6-17 Ap '62, (MIRA 15:4)

1. Gosudarstvennyy proyektnyy institut "Tyashpromoelekuprojekt".  
(Electric light fixtures)

KNORRING, G.M., kand.tekhn.pank

Voltage drop permissible in the design of electric lighting  
networks. Svetotekhnika 8 no.6:26 Je '62. (MIRA 15:5)

1. Gosudarstvennyy proyektnyy institut "Tyashpromoelektrproyekt".  
(Electric networks) (Electric lighting)



KNORRING, O.M., kand.tekhn.nauk

Remote control of electric lighting in industrial buildings  
having no windows or skylights. Svetotekhnika 8 no.7:29  
J1 '62. (MIRA 15:6)

(Electric lighting)

KNORRINO, G.M., kand. tekhn. nauk

In the technical council of the State Design and Planning Institute  
for the Heavy Electrical Equipment Industry. Svetotekhnika 8 no.1:  
28 Ja '62. (MIRA 15:1)

(Electric lighting--Congresses)

SHAYKEVICH, Aleksandr Semenovich; KNORRING, G.M., kma.d tekhn. nauk,  
retsensent; SAPOZHNIKOV, N.A., doktor tekhn. nauk, prof.,  
nauk. red.; SOBOLEVA, Ye.M., tekhn. red.

[Quality of industrial electric lighting systems and methods  
for their improvement] Kachestvo promyshlennogo osveshcheniia  
i puti ego povysheniia. Moskva, Gosenergoizdat, 295 p.

(MIRA 15:11)

(Electric lighting) (Industrial plants—Lighting)

KNORRING, G.M., kand.tekhn.nauk

Choice of an economical light fixture. Svetotekhnika 8 no.7:26-29  
Jl '62. (MIRA 15:6)

1. Gosudarstvennyy proyektnyy institut "Tyashpromoelektrproyekt".  
(Electric light fixtures)  
(Electric lighting)

YEPANESHNIKOV, Mikhail Mikhaylovich; KNORRINO, G.M., kand. tekhn.  
nauk, retsenzent; LEVITIN, I.B., kand. tekhn. nauk, retsen-  
sent; KOMAR, M.A., red.; BUL'DYAYEV, N.A., tekhn. red.

[Electric lighting]Elektricheskoe osveshchenie. Izd.3., perer.  
i dop. Moskva, Gosenergoizdat, 1962. 335 p. (MIRA 16:1)  
(Electric lighting) (Electric light fixtures)

KNORRINO, G.M., kand.tekhn.nauk; SHAYKEVICH, A.S., kand.tekhn.nauk

Concerning electric lighting norms for different industries.  
Svetotekhnika 8 no.12:22-23 D '62. (MIRA 16:1)  
(Electric lighting--Standards)

AMATUNI, Napoleon Leonovich, dots.; BARDINSKIY, Sergey Ivanovich, dots.; DREVS, Georgiy Vyacheslavovich, dots.; IL'IN, Boris Vladimirovich, dots.; KNORRING, Gleb Mikhaylovich, kand. tekhn.nauk; PASECHNIK, Stepan Yakovlevich, prof.; PREOBRAZHENSKIY, Aleksey Alekseyevich, dots.; ROZENBERGER, Boris Fedorovich, dots.; SOLOV'YEV, Vladimir Ivanovich, dots.; YASTREBOV, Petr Parfen'yevich, prof.; BELOVIDOV, B.S., doktor tekhn.nauk, prof., retsentsent; ARTEMOVA, T.I., red. izd-va; TUPITSYNA, L.A., red.izd-va; SHVETSOV, S.V., tekhn. red.

[Electrical engineering and electric equipment] Elektrotekh-  
nika i elektrooborudovanie; obshchii kurs. [By] N.L.Amatuni  
i dr. Moskva, Sovuzisdat, 1963. 646 p. (MIRA 16:9)

1. Novocherkasskiy politekhnicheskii institut (for Belovidov).  
(Electric engineering--Handbooks, manuals, etc.)  
(Electric apparatus and appliances--Handbooks, manuals, etc.)

KNORRING, G.M., kand.tekhn.nauk

Problem concerning the form of lighting engineering designs.  
Svetotekhnika 9 no.1;23-24 Ja '63. (MIRA 16:1)

1. Gosudarstvennyy institut po proyektirovaniyu elektrooborudovaniya  
dlya tyazheloy promyshlennosti.  
(Electric lighting)



KNORRING, G.M., kand. tekhn. nauk

Illumination of large vertical shiny surfaces. Svetotekhnika 9  
no.8:6-9 Ag '63. (MIRA 16:8)

1. Leningradskoye otdeleniye Gosudarstvennogo instituta po  
proyektirovaniyu elektrooborudovaniya dlya tyazheloy  
promyshlennosti.

(Electric lighting)

ANASTASIYEV, P.I.; BROSTREM, A.A.; VESHENEVSKIY, S.N.; GEL'MAN, G.A.;  
 GORNSHTEYN, L.A.; ZIMENKOV, M.G.; KARVOVSKIY, G.A.;  
 KIBLITSKIY, V.A.; KLEYN, P.N.; KLIMIKSEYEV, V.M.; KLYUYEV,  
 S.A.; KNORRING, G.M.; KORENEVSKIY, A.N.; LEYBZON, Ya.I.;  
 LIVSHITS, D.S.; ~~BRUSHMAN~~, I.I.; LOGINOV, O.I.; MILICH, M.B.;  
 NAYFEL'D, M.R.; OKOROKOV, S.P.; POLYAK, A.B.; ROYZEN, S.B.;  
 RYABOV, M.S.; SINITSYN, O.A.; SOLODUKHO, Ya.Yu.; SOSKIN, E.A.;  
 STASYUK, V.N.; BOL'SHAM, Ya.M., red.; GRACHEV, V.A., red.;  
 SAMOVER, M.L., red.; BORICHEV, I. Ye., red.; DANILENKO, A.I.,  
 red.; KHRAMUSHIN, A.M., red.; YAKUBOVSKIY, F.B., red.;  
 BRENDENBURGSKAYA, E.Ya., red.; KOMAR, M.A., red.; BORUNOV,  
 N.I., tekhn. red.

[Handbook on electrical systems of industrial enterprises  
 in four volumes] Spravochnik po elektroustanovkam promyshlen-  
 nykh predpriyatii v chetyrekh tomakh. Pod obshchei red. I.E.  
 Boricheva i dr. Moskva, Gosenergoizdat. Vol.1. [Design of  
 electrical systems of industrial enterprises in two parts]  
 Proektirovanie elektroustanovok promyshlennyykh predpriyatii  
 v dvukh chastiakh. Pt.2. Pod red. I.A.M.Bol'shama i dr.  
 1963. 598 p. (MIRA 17:3)

VOLOTSKOY, Nikolay Vasil'yevich; ~~KNORRING~~, Gleb Mikhaylovich;  
RYABOV, Mikhail Sergeyevich; ~~SHAYKEVICH~~, Aleksandr  
Semenovich; KLYUYEV, S.A., nauchn. red.; ~~KNORRING~~, G.M.,  
nauchn. red.

[Electrical lighting of industrial and public buildings]  
Elektricheskoe osveshchenie proizvodstvennykh i grazh-  
danskikh zdaniy. [By] N.V.Volotskoi i dr. Moskva,  
Energia, 1964. 767 p. (MIRA 18:2)

KNORRING, G.M., kand.tekhn.nauk

Lighting networks with one wire reversed. Svyetotekhnika 10 no.3:  
24-25 Mr 64. (MIRA 17:3)

1. Lampovoye otdeleniye Gosudarstvennogo instituta po proyektirovaniyu elektrooborudovaniya dlya tyazheloy promyshlennosti.

KNORRING, G.M., kand.tekhn.nauk

Applicability and placement of standard light fixtures. Svetotekhnika  
10 no.2:25-27 F '64. (MIRA 17:4)

1. IO Gosudarstvennogo instituta po proyektirovaniyu elektrooborudovaniya dlya tyazheloy promyshlennosti.

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ACCESSION NR: AP4049870

ENCLOSURE: 01

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RUSSIAN, I. S.

IKONNIKOV, S.S.; ISMAILOV, M.; KHEORING, I.G.; KOROL'VA, A.S.; KURYASHIN, S.N.; MAL'YIN, V.P.; MASIMENKOVA, T.I.; MEVSKIY, S.A.; NIKITIN, V.A.; OVCHINNIKOV, P.N.; PLESHKO, S.I.; POPOV, N.G.; SIDORENKO, G.T.; CHUKAVINA, A.P.; SHIRKOVA, I.P.; BORISOVA, A.G., redaktor; VASIL'CHENKO, I.T., redaktor; KHESTRUYEVA, O.N., redaktor; ZENDEL', R.Ye., tekhnicheskii redaktor

[Flora of the Tajik S.S.R.] Flora Tadzhikskoi SSR. Moskva, Izd-vo Akad.nauk SSSR, Vol.1. [Pteridophyta - Gramineae] Paprotnikoobraznyeslaki. Glav.red. P.N.Ovchinnikov. 1957. 547 p. (MIRA 10:9)  
(Tajikistan--Botany)

VVEDENSKIY, A.I.; GRIGOR'YEV, Yu.S.; KNORRING, I.G.; KRECHETOVICH,  
V.I.; OVCHINNIKOV, P.N.; FILATOVA, I.F.; CHUKAVINA, A.P.;  
ZENDEL', M.Ye., tekhn. red.

[Flora of the Tajik S.S.R.] Flora Tadshikskoi SSR. Glav. red.  
P.N.Ovchinnikov. Moskva, Izd-vo AN SSSR. Vol.2. [Cyperaceae -  
Orchidaceae] Osokovyie-Orkhidnye. 1963. 454 p. (MIRA 16:8)  
(Tajikistan--Monocotyledons)



**KNORRING, O.N.; TAMASHIAN, S.G.**

Significance of anatomical characteristics of the fruit in the  
systematics of the thistle family. Bot.smr. 38 no.6:909-910  
M-D '53. (MLA 7:1)

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR,  
Leningrad. (Carduaceae)

**KNORRING, O.H.**

**General Marrubium. Lagopsis, Pseudernostachys. Flora SSER 20:  
233-253; 500-501 '54. (MLBA 7:7)  
(Labiatae)**

~~KNORRING, O.M.~~

Materials on systematics of the genus *Lepidolopha* Winkl.  
Bot.mat.Gerb. 19:380-384 '59. (MIRA 12:8)  
(Soviet Central Asia--*Lepidolopha*)

KNORRING, O.E.

A new species of the genus *Lagochilus* Bge. from the Turkestan  
Range. Bot. mat. Gerb. 21:314-315 '61. (MIRA 14:10)  
(Ravat region (Leninabad Province))—*Lagochilus*

AFANAS'YEV, K.S.; BOCHANTSEV, V.P.; VASIL'CHENKO, I.T.; GORSHKOVA, S.G.;  
IL'IN, M.M.; KIRPICHNIKOV, M.E.; KNOBIRING, O.E.; KUPRIYANOVA, L.A.;  
POBEDIMOVA, Ye.G.; POLYAKOV, P.P.; POYARKOVA, A.I.; SMOL'YANINOVA, L.A.;  
FEDOROV, An.A.; TSVETKOVA, L.I.; TSVALEV, N.N.; SHISHKIN, B.K.;  
KOMAROV, V.L., akademik, glavnyy red.; BOBROV, red.toma; SHISHKIN, B.K.,  
red.isd.; SMIRNOVA, A.V., tekhn.red.

[Flora of the U.S.S.R.] Flora SSSR. Moskva, Izd-vo Akad.nauk  
SSSR. 1961. 938 p. (Flora SSSR, vol. 26). (MIRA 15:2)

1. Chlen-korrespondent AN SSSR (for Shishkin).  
(Compositae)

BORISOVA, A.G.; KNOBING, O.E.; NEKRASOVA, V.L.

Ninetieth anniversary of the birth of Boris Aleksseevich Fedchenko  
(Dec. 27, 1872- Sept. 29, 1947). Bot. zhur. 47 no.6:897-907  
Ja '62. (MIRA 15:7)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR,  
Leningrad.

(Fedchenko, Boris Aleksseevich, 1872-1947)

SOV/112-58-2-2493

Translation from: Referativnyy zhurnal, Elektrotehnika, 1958, Nr 2, p 113 (USSR)

AUTHOR: Knorring, Y.

TITLE: Measuring Low-Frequency Vibrations by Double Integration of Accelerations (Izmereniye vibratsiy nizkoy chastoty metodom dvukratnogo integrirovaniya uskoreniy)

PERIODICAL: Sb. nauchno-issled. rabot stud. elektromekhan. fak. Leningr. politekhn. in-t, L., 1956, pp 46-61

ABSTRACT: The feasibility has been substantiated of constructing low-frequency vibrometers based on a higher (than that being measured) frequency mechanical pickup and a double integrating circuit. Design formulae are derived, and a meter design is presented for the 0.2-30 cps range with a nonperiodic (step) displacement component of 0.3 mm amplitude, about 0.5 sec in duration, and a max acceleration of 10 g. The meter rated measuring band is 10-200 cps and the max amplitude is 0.5 mm. The pickup self-oscillation frequency is about 60 cps; its moving-part travel is 3 mm. A two-phototube photoelectric

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SOY/112-58-2-2493

**Measuring Low-Frequency Vibrations by Double Integration of Accelerations**

differential converter is used in the meter. There are two shutters in the pickup with slots, each slot half-closing a corresponding slot in the stationary diaphragm; in the event of displacement, one slot closes more and the other less. The high-impedance input stage of the integrator is designed with a small grid current tube. The first integrator feeds into a cathode follower and then into a second integrator which is, actually, a capacitance-feedback amplifier. It is reported that experimental results with parts of the above circuit agreed well with calculated characteristics.

S.S. Shch.

Card 2/2



ANOKHIN, V.G.

L 41182-63 EMT(4)/EMP(e)/EMP(v)/T/EMP(k)/EMP(1) Pf-4

ACCESSION NR: AP5004677

8/0115/64/000/009/0058/0059

AUTHOR: none

TITLE: Fourth scientific and technical conference on "Cybernetics for the improvement of measurement and inspection methods"

SOURCE: Izmeritel'naya tekhnika, no. 9, 1964, 58-59

TOPIC TAGS: cybernetics, electric measurement, electric quantity instrument, digital computer, electronic equipment, electric engineering conference

ABSTRACT: "The conference was held 1-4 July at the All-Union Scientific Research Institute of Metrology by the Section of Electrical Measurements of the Council on the Problem of "Scientific Instrument Making" of the State Committee on Coordination of Scientific Research Work in the USSR together with the All-Union Scientific Research Institute of Electrical Measurement Instruments and the Leningrad Regional Administration of the Scientific and Technical Division of the Instrument Making Industry. More than 400 delegates from 29 cities of the country participated.

Fifty-seven reports were heard and discussed. Reports were given by: P. Y. NOVIKOV (Leningrad)--"Definition of the Concept of Informational Error in Measurement and its Importance in Practical Use" and "On the Problem of the Average Informational Criterion of Accuracy Throughout the Entire Scale of an Instrument"; Ya. A.

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ACCESSION NR: APS001677

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KUPERSHCHIKOV (Moscow)--"On Determination of the Criteria of Accuracy for Measurement Devices"; S. M. MANDEL'SHTAM (Leningrad)--report on a new criterion of accuracy of measurement instruments; P. P. PARSNIN (Leningrad)--report on optimization when using Fourier transforms on electronic digital computers; S. P. DMITRIYEV, S. Ya. DOLOINTSEVA and A. A. IGNATOV (Leningrad)--proposal of a new method for solving problems of optimum filtering for non-stationary random signals and interference; I. B. CHELPAKOV--"Calculation of the Dynamic Characteristics of an Optimum Complex Two-Channel System which Uses Signals from a Position Meter and from a Speed Meter"; R. A. POLUKHTOV (Leningrad)--"Optimum Periodic Correction in the Measurement of Continuous Signals"; S. P. ADAMOYICH (Moscow)--"Analysis and Construction of Devices for Correction of Non-linearity and Scaling for Unitary Codes; G. V. GORELOVA (Taganrog)--"A Method for Statistical Optimization in Graduating the Scales of Electrical Measuring Instruments"; M. A. ZEMEL'MAN (Moscow)--"Analog-Digital Voltage Converter with Automatic Error Correction"; S. B. MALINZHEKIN, Y. S. KALECHUK and I. A. YANDYICH (Kiev)--"Automatic Monitoring of the Parameters of the Electrical Signals of Complex Radio and Electronic Equipment"; V. P. PEROV (Moscow)--"Operational Cybernetics as an Independent Scientific Specialisation"; Ye. M. GIL'RO (Leningrad)--"On the Problem of Effective Non-linear Scales"; A. I. MANDEL'OV (Moscow)--"Devices for Preliminary Processing of the Results of Measurements Presented in the Form of

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ACCESSION NO: AP5006677

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Graphic Recordings For Subsequent Introduction of the Information into Universal Digital Computers"; O. M. MOJILEVICH and E. S. SOLOVY (Leningrad)--"On a Method for Reducing Excess Information"; T. V. NIKOLAYEVA (Leningrad)--"A Device for Temporal Discretization of Continuous Signals"; A. A. LYOVIN and M. L. RULIN (Moscow)--"Optimization of the Transmission of Telemetric Information as a Means for Raising the Efficiency and Eliminating Interference"; D. E. GUKOVSKIY (Moscow)--"On a Statistical Approach to the Detection of Events in Automatic Inspection"; M. I. LANTIN (Leningrad)--"Method for Calculating the Holding Time of Communications in a Centralized Inspection System or Constant Servicing Time"; O. N. BRONSHTEYN, A. L. RAYKIN and V. V. RYKOV (Moscow)--"On a Single-Line Mass Service System with Losses"; V. M. SHLYANDIN (Penza)--report on circuit designs for direct compensation electrical digital measuring instruments; A. N. KOMOV (Novocherkassk)--report on a new method for compensation of digital bridges; M. N. OLASOV (Leningrad)--report on the method of voltage-to-angular rotation conversion; V. S. GUTNIKOV (Leningrad)--"Methods for Construction of Frequency Capacitance Pickups with a Linear Scale"; R. Ya. SYROPYATOVA and R. N. KHARCHENKO (Moscow)--report on the determination of the amplitude-frequency and phase characteristics of PFM and PWM modulators; Ye. I. TERYASOV (Novocherkassk)--"The Phototransistor as a Switch for Electrical Measurement Purposes"; N. V. MALTOVA (Leningrad)--a report on ways for making universal equipment for measurement of current, voltage and power; P. P. ORNATSKIY and Ye. I. KOZULYA (Kiev)--reports on the construction of static voltmeters, wattmeters, and

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ACCESSION NO: AP500677

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phase meters; A. V. TRIKHAROV, I. G. SHENILYAYEV, N. I. SARLIN, V. M. RASIN and V. A. GORBUKOV (Tomsk)--report on a device for automatic processing of the measurements of vibration amplitude of pneumatic hammers; L. K. RUKINA and V. G. KHORRINO (Leningrad)--report on the development of a digital compensator for measuring pressure, force, etc.; M. B. DADUKINA (Leningrad)--report on a method for constructing frequency pickups for gas analysis; Ye. M. KANPOV, V. A. BRAKHNEV and B. Ya. LUKHTSINER (Kuybyshev)--reports on analysis and recording of boring speeds; Yu. V. PSHTENICHNIKOV (Kuybyshev)--"A High Speed Voltage-to-Digital Code Converter for as Pickups"; G. P. VIKHROV and V. K. ISAYEV (Vilna)--"A Highly Accurate Digital Peak-to-Peak Voltmeter"; and A. M. FUSIN (Leningrad)--"A Low Level Analog-Digital Voltage Converter."

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EE, NO

NO REF SOV: 000

OTHER: 000

JPS

ml  
Card 4/4

1. V. G.

Frequency-subtraction circuits for frequency-digital conversion

SOURCE: Izmeritel'naya tekhnika, no. 7, 1963, 25-30

TOPIC TAGS: frequency subtraction, frequency primary detector, primary detector

ABSTRACT: Improved frequency-subtraction circuits which recognize the sign of the difference frequency, and universal circuits which can operate with any ratio between input frequencies are considered. Logic circuits based on static triggers and potential-pulse switches are analyzed; all logic elements respond to signals of one polarity only. One way of registering phase relations in a modulator-containing circuit is to analyze the phase shift between input voltages at the

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L 15547-63

ACCESSION NR: AP3005526

moment of sending the pulse to the counter. Polarity of one voltage is determined when the second voltage is zero. Another way is based on a sudden phase shift introduced into one of the voltages. A two- or three-phase modulator changes its phase sequence depending on the sign of the difference frequency applied to the modulator. The universal frequency-subtraction circuits are based on determining the difference between the number of the cycles of input frequencies. Two input voltages are used to form two pulse trains with definite duration, then pairs of coinciding or close pulses are suppressed, and the rest is directed to a reversible counter. The last method has the two pulse trains (formed from input voltages) cadenced which results in their fixed relative positions in time. Orig. art. has: 5 figures and 8 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 15Aug63

ENCL: 00

SUB CODE: 1E

NO REF SOV: 007

OTHER: 003

Card 2/2

ACC NR: AP6035705

(A, N)

SOURCE CODE: UR/0113/66/000/019/0053/0053

INVENTORS: Mukina, L. K.; Knorring, V. G.

ORO: none

TITLE: A direct current digital milliammeter. Class 21, No. 186560

SOURCE: Izobreteniya, promyshlennyye obrastay, tovarnyye znaki, no. 19, 1966, 53

TOPIC TAGS: direct current, electric measuring instrument, ammeter

ABSTRACT: This Author Certificate presents a direct current digital milliammeter based on the principle of follow-up balancing. The milliammeter includes a galvanometric converter of the current to a displacement, a converter of the displacement to a pulse sequence, an anticoincidence circuit, a recording device, and a code-current converter (see Fig. 1). The design increases the response time, diminishes the effect of the zero drift, reduces the dead zone, and produces a discrete readout of the quantity being measured with an analog interpolation within the limits of the unit of discreteness. A differential frequency detector is used as the converter of the displacement to the pulse sequence. The recording device includes an analog phase meter which records the fractions of a period and a duodirectional pulse counter which records the whole periods of the cumulative phase difference between the signals

UDO: 621.317.714.024.005.4

Card 1/2

ACC NR: AP6035705

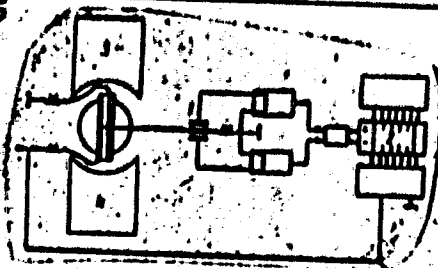


Fig. 1. 1 - displacement converter; 2 - duodirectional pulse counter

from the two halves of the detector. Orig. art. has: 1 figure.

SUB CODE: 09/

SUBM DATE: 11Jan65

Card 2/2



1.20 71-66

ACC NR: AT6005068

SOURCE CODE: UR/2543/65/000/256/0003/0009

AUTHOR: Knorrin, V. G.; Rukins, L. K.

ORG: Leningrad Polytechnic Institute im. M. I. Kalinin (Leningradskiy politekhnikheskiy institut)

TITLE: A new method for the construction of digital compensation instruments for the measurement of mechanical quantities

SOURCE: Leningrad. Politekhnikheskiy institut. Trudy, no. 256, 1965. Tsifrovyye izmeritel'nyye i upravlyayushchiye ustroystva (Digital measuring and control devices), 3-9

TOPIC TAGS: manometer, electromechanical converter, analog digital converter, measuring instrument

ABSTRACT: A method is proposed for the design of precision instruments for the measurement of nonelectrical quantities (force, pressure, moment). The instruments consist of a closed automatic equilibration system in which the direct conversion section contains a nonelectrical quantity-to-frequency converter, and inverse conversion is carried out by a code-analog converter. The approach is discussed on the example of a manometer shown in Fig. 1.

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ACC NR. AT6005088

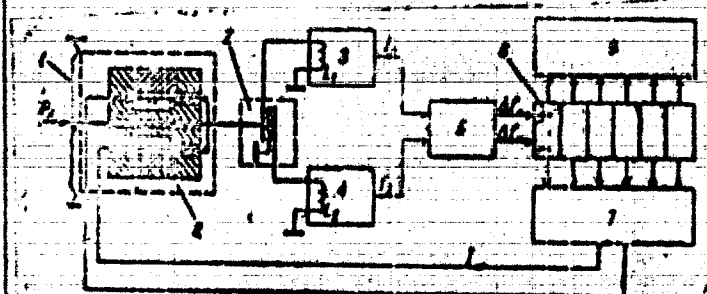


Fig. 1. The block diagram of a digital compensating manometer.

1 - membrane; 2 - differential capacitive undercompensation converter; 3, 4 - frequency dependent circuits of two LC generators; 5 - frequency reading circuits; 6 - reversive pulse counter; 7 - code-to-current converter; 8 - inverted magnetoelectric converter; 9 - reading device;

Card 2/2

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The authors analyze the operation of the instrument, establish its equivalent circuit, and develop the pertinent theoretical expressions. An analysis of the results shows that the procedures studied can be used to build instruments which are completely free of the static undercompensation error. These instruments are also free of insensitive zones because of the use of an ideal integrating stage without a starting threshold in the direct conversion circuit. Since these are digital systems, they may be made completely free of quantization errors without complicating the instrument. Finally, in contradistinction to other physical quantity-to-frequency conversion setups, the proposed units carry out tracking conversion and allow the reading of the quantity under determination at any instant of time. Orig. art. has: 17 formulas and 4 figures.

(08)

SUB CODE: 09, 14/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 003/ ATD PRESS: 4223

Card 3/3

ULR

ACCESSION NR: AP4033597

S/0119/64/000/004/0008/0008

AUTHOR: Zograf, I. A. (Engineer); Knorrin, V. G. (Engineer);  
Kondrashkova, G. A. (Engineer); Malygina, N. V. (Engineer)

TITLE: Method for measuring infralow-frequency currents and voltages

SOURCE: Pribozestroyeniye, no. 4, 1964, 8

TOPIC TAGS: infralow frequency, infralow frequency current, infralow  
frequency voltage, infralow frequency measurement, fraction cps measurement

ABSTRACT: The existing methods of infralow-frequency measurement are based on high-inertia instruments with a resulting slow reaction. A new principle of measurement is suggested in which a differential frequency converter develops two frequencies  $f_1$  and  $f_2$  in two oscillators (block diagram supplied). Both frequencies are fed into a balanced modulator with a low-pass filter; the latter yields the difference frequency  $f_1 - f_2$ . This frequency is zero at no measurand;

Card 1/2

ZOGRAF, I. A.; KNORRING, V. G.; KONDRASHKOVA, G. A.; MALYOINA, N. V.

Method for measuring currents and voltages of subsonic frequencies. Priboresstroenie no. 4:8 Ap '64. (MIRA 17:5)

ACC NR: AP7001828

SOURCE CODE: UR/0119/66/000/012/0027/0028

AUTHOR: Knorring, V. G. (Engineer); Rukina, L. K. (Engineer)

ORG: none

TITLE: Sign-sensitive frequency subtraction circuit based on discrete action elements

SOURCE: Priborostroyeniye, no. 12, 1966, 27-28

TOPIC TAGS: pulse counter, transistorized circuit, logic circuit

ABSTRACT: A digital frequency comparator with direction sensitivity (i.e., one that indicates whether the resultant difference between the two input frequencies  $f_1$  and  $f_2$  is a plus or a minus) is described. The comparator has solid-state logic circuits which produce a series of positive pulses; the repetition rate of these pulse series is equal to the difference between the two input frequencies. The comparator operates in a relative frequency deviation range of 20—25% of the input frequencies. It also operates when the input frequency  $f_2$  is 2, 3, or another integral number of times lower than the input frequency  $f_1$ . Orig. art. has: 2 figures. [IV]

SUB CODE: 09/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 001

Cord 1/1

UDC: 621.317.361

KNORRING, V.I.; SMOLYAK, A.M.

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 PILIPENKO, F.S.; POIZAKOV, P.P.; RODIONENKO, G.I.;  
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 biolog.nauk; SMIRNOVA, A.V., tekhn.red.

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 Moskva, Izd-vo Akad.nauk. Vol.6. [Angiosperms: Loganiaceae-Compositae]  
 Pokrytosemennye semeistva, Loganiye - Slozhnotsvetnye. 1962.  
 378 p. (MIRA 15:5)

1. Akademiya nauk SSSR. Botanicheskiy institut.  
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velocity of the flow of water in open channels. p. 303.

Vol. 5, No. 9, Sept. 1955  
VOENI HOSPODARSTVI  
TECHNOLOGY  
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KNOTEK, B.

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<p>Announcing of Black Heart Malleable Cast Iron. (In Czech.) Milas Knotek. <i>Hutnické Listy</i>, v. 2, Aug. 1947, p. 51-56.</p> <p>Tells how to achieve considerable economy and improvement in quality in the production of malleable castings, without use of pig iron, by properly planned annealing. Also discusses decarburization with aluminum and effects of copper additions.</p>			
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LITERATURE		CLASSIFICATION	

KNOTEK, MILAS		110 110 110 110	
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<p>MODERN TECHNIQUE IN THE PRODUCTION OF BLACK-HEART MALLEABLE IRON IN THE CUPOLA IN CZECHOSLOVAKIA. M. Knotek. (Fonderie, 1947, Dec., pp. 961-962).</p> <p>A summary is given of a paper in which the author describes the practice at two works in Czechoslovakia producing blackheart malleable iron using 40% steel scrap. -- J.C.R.</p>			
010.114 METALLURGICAL LITERATURE CLASSIFICATION		0-07478-12800	
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From the Analysis of "Distances to the Eastward"

... examples taken from actual applications ...  
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1. Ustav jaderného výzkumu, Československá akademie věd,  
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Affiliation: Dept. of Public and Municipal Hygiene, comprised of the Hygiene and Medical Faculty, Prague.

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1. Ústav hygieny v Praze, reditel prof. dr. K. Symon Katedra hygieny Ústavu pro doskolování lékařů v Praze, vedoucí prof. dr. K. Symon I dětská klinika fakulty dětského lékařství KU v Praze, přednosta prof. dr. J. Svejcar, DrSc.  
(METHEMOGLOBINEMIA) (NITRITES)  
(WATER POLLUTION) (INFANT NUTRITION)

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1. Ustav hygieny, Praha a katedra hygieny UDL, Praha.

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1. Institute of Hygiene (Ustav hygieny), Prague; 2. Chair of Hygiene of UDL (Katedra hygieny UDL), Prague

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1. Institute of Hygiene (Ustav hygieny), Prague; 2. First Children's Clinic of the Faculty Children's Hospital (I. detska klinika fakultni detske nemocnice), Prague

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1. Institute of Hygiene (Ustav hygieny), Prague; 2. Chair of Hygiene of the UDL (Katedra hygieny UDL), Prague

Prague, Ceskoslovenska Hygiena, No 8, 1964, pp. 475-481

"Risk of Using Chlorine Dioxide in the Treatment of Water in Waterworks. Hygienic Education."

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Zwierząt Polskiej Akademii Nauk  
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Population genetic studies concerning the environment in animal breeding. Postepy nauki roln 12 no.1:3-12 Ja-F '65.

1. Institute of Applied Genetics of the School of Agriculture, Krakow.

KNOTHE, B.

"Technological experiences with the production of stretched rayon." p. 121

MAGYAR TEXTILTECHNIKA (Textilipari Műszaki és Tudományos Egyesület)  
Budapest, Hungary, Vol. 11, No. 3, Mar. 1959

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Uncl.



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Attempts to determine the milk efficiency of sheep of the Gakiel race while pasturing in the mountains based on one single test. Postępy nauk roln 9 no.3:15-21 Ky-Je '62.

1. Zakład Hodowli Owiec, Wyższa Szkoła Rolnicza, Kraków, oraz Pracownia Gospodarki Oczakowej, Instytut Melioracji i Użytków Zielonych, Kraków.

KNOTHE, J

Knothe J. Sigalin J.

Knothe J. Sigalin J., "Some Remarks on the East-West Thoroughfare." (Niektóre uwagi o projektowaniu Trasy Wschod-Zachod). Architektura, No 11-12, 1969, pp. 313-326, 40 figs.

An article written by architects of the East-West Thoroughfare studio. It is in the nature of an opening to the discussion which is likely to develop on such a great town-planning undertaking, the East-West Thoroughfare already built, and an invitation to other architects to participate. The article also gives some remarks on the conditions in which the staff of the East-West Thoroughfare studio among the specialists interested. Such a discussion should give in detail all the "pros and cons" necessary to the formation of an objective opinion of the whole of the East-West Thoroughfare and the establishment of a basis for suggestions for the future.

SO: Polish Technical Abstracts No. 2, 1951

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PTA

1900 71130  
Jankowski S., Knothe J., Szulc J., Stepinski Z., Marzalewska  
Residential District (MDM).  
Marzalewska Dzielnica Mieszkaniowa Architektura No 7.  
1951, pp. 222-233, 19 figs.

This article explains the basic assumption of the MDM-residential district, intended for 45 thousand in. 1951. The main task of the MDM draftsmen was to create, in the most busy part of the city, living accommodation for the working people. The whole group of designers was charged with the elaboration, based on economical, political and technical problems, of the full programme. They were required to work out the proper architectural forms for houses, streets, squares and city-quarters, due consideration being given to the new socialist essence. The article broadly describes special problems of a 100 ha area, the building programme and the architectural treatment of the houses.

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SO: Monthly List of East European Accessions, (REAL), LC, Vol. 3, No. 12, Dec.  
1954, Uncl.

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"High-tension short-circuit testing stations as basic switchgear laboratories." p. 494.  
(Przegląd Elektrotechniczny, Vol. 29, no. 11/12, Dec 53, Warszawa)

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"Low-tension short-circuit testing station of the Electrotechnical Institute." p. 559.  
(Przegląd Elektrotechniczny, Vol. 29, no. 11/12, Dec 53, Warszawa)

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Problems of selection and quality of switches made in Poland. p. 334.  
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SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec.  
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KNOTHE, Stanislaw

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Archiw gorn 10 no.1:17-27 '63.

1. Submitted April 27, 1964.



1473. EFFECT OF UNDERGROUND WORKINGS ON SURFACE FROM POINT OF VIEW OF SAFETY OF STRUCTURES. Badryk, V. and Knothe, S. (Praglad Gornicy (Min. Rev.), Nov. 1950, vol. 6, 554-557).

A method is described for calculating deformation of the earth from the maximum curvature at the edge of an area of subsidence. This enables the liability of surface structures to damage to be determined. (L).

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022.834 : 022.37

**Knapp G. Reducing the Influence of Underground Mining on the Surface.**

**"Zurücknahme von unterirdischen Ausbauräumen als Voraussetzung für die Reduzierung des Einflusses des Bergbaus auf die Oberfläche".** *Proceedings Germany*. No. 10, 1961, pp. 288-298, 3 figs, 1 tab.

Formulae for computing a profile curvature of the surface subsiding trough which is a measure of damage to surface buildings. System of mining seams, or layers of the same seam, which causes the mutual annulment of these curvatures. Formulae for calculating the distance of exploitation fronts of two seams or layers and for computing the thickness of two layers in order to obtain the mutual annulment of profile curvatures of subsidence troughs.

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ARCHIWUM GORNICTWA I HUTNICOSTWA, Vol. 1, No. 1, 1953, Warszawa, Poland)

SO: Monthly List of East European Accessions. (EAL), LC, Vol. 4, No. 5,  
May 1955, Uncl.

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"Time factor in the Formation of a Collapsing Area", P. 51, (ARCHIWUM GORNICTWA  
I HUTNICTWA, Vol. 1, No. 1, 1953, Warszawa, Poland)

SO: Monthly List of East European Accessions. (XKAL), LO, Vol. 4, No. 5.  
May 1955, Uncl.

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"Approximate Method of Determining Surface Deformation by Applying Palisades,  
P. 473, (ARCHIWUM GORNICTWA I HUTNICTWA, Vol. 2, No. 4, 1954, Warszawa, Poland)

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Vertical deformations of rock masses by circular and symmetric extraction of shaft pillars.

P. 145 (ARCHIVUM CORNICIWA.) Island, Vol. 1, No. 2, 1950

50: Monthly Index of East European Accessions (AEI I) Vol. 6, No. 11, November 1957

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Problems related to the removal of shaft-protection props. p. 73.  
(Banyaszati Lapok, Vol. 12, no. 2, February 1957. Hungary)  
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61

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22. The Union of Russian Students, Notes on the Congress of Russian Students in Warsaw in September 1912, "Novaya Russkaya," Moscow, January 1913 (Russian language) in Warsaw, p. 22-24.
  23. The 20th Anniversary of the Death of Leo Tolstoy, "Iskra," Moscow, March 1912, p. 1-2.
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of secondary substations on the transmission losses in  
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61-66 7 '63.

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1. Komárom Jarasi Tanács I.sz.Kórház, Szony, Fertősz  
Óstaly.

\*

~~OLD~~

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Metabolism Laboratory of the Microbiological Institute of the Czechoslovak Academy of Sciences, the Histological Institute of Charles University in Prague, and the Physiological Institute of the Czechoslovak Academy of Sciences (for all)

Berlin, Acta Biologica et Medica Germanica, No. 5/6, 1963, pp 816-820

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